

U.S. Department of Commerce, Patent and Trademark Office

Application No.: 10/706,398

Filing date: November 12, 2003

Inventors: Craft et al.

Group Art Unit: ~~unknown~~ 2178Examiner name: ~~unknown~~ Honeycutt

Attorney Docket No.: ALA-007B

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

**PROTOCOL PROCESSING STACK FOR USE WITH
INTELLIGENT NETWORK INTERFACE DEVICE**

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
LBIA	A	5,517,668	5/14/1996	Szwerinski et al.	395	800	
	B						
	C						
	D						
	E						
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	W						
	X						
	Y						
	Z						
	AA						
	AB						

Examiner *Kristina Honeycutt* Date Considered

1/5/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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KBRA	A	2003/0165160	9/4/03	Minami et al.	370	466	
KBRA	B	2003/0066011	4/11/02	Oren	714	758	
KBRA	C	2001/0053148	12/20/01	Bilic et al.	370	389	
KBRA	D	2001/0048681	12/6/01	Bilic et al.	370	389	
KBRA	E	2001/0025315	01/10/01	Jolitz	709	231	
KBRA	F	2001/0014954	8/16/01	Purcell et al.	714	4	
KBRA	G	2001/0014892	8/16/01	Gaither et al.	707	200	
KBRA	H	2001/0013059	8/9/01	Dawson et al.	709	217	
KBRA	I	2001/0004354	01/10/01	Jolitz	370	328	
KBRA	J	4,366,538	12/28/82	Johnson et al.	364	200	
KBRA	K	4,589,063	5/13/86	Shah et al.	710	8	
KBRA	L	4,991,133	5/13/86	Davis et al.	364	900	
KBRA	M	5,056,058	10/8/91	Hirata et al.	709	230	
KBRA	N	5,058,110	10/15/91	Beach et al.	370	85.6	
KBRA	O	5,097,442	3/17/92	Ward et al.	365	78	
KBRA	P	5,163,131	11/10/92	Row et al.	395	200	
KBRA	Q	5,212,778	5/18/93	Dally et al.	395	400	
KBRA	R	5,280,477	1/18/94	Trapp	370	85.1	
KBRA	S	5,289,580	2/22/94	Latif et al.	395	275	
KBRA	T	5,303,344	4/12/94	Yokoyama et al.	395	200	
KBRA	U	5,412,782	5/2/95	Hausman et al.	395	250	
KBRA	V	5,448,566	9/5/95	Richter et al.	370	94.1	
KBRA	W	5,485,579	1/16/96	Hitz et al.	395	200.12	
KBRA	X	5,506,966	4/9/96	Ban	395	250	
KBRA	Y	5,511,169	4/23/96	Suda	395	280	
KBRA	Z	5,548,730	8/20/96	Young et al.	395	280	
KBRA	AA	5,566,170	10/15/96	Bakke et al.	370	60	
KBRA	AB	5,588,121	12/24/96	Reddin et al.	395	200.15	

Examiner

Christina Honeycutt

Date Considered

1/5/05

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U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
KBIA	AC	5,590,328	12/31/96	Seno et al.	395	675	
KBIA	AD	5,592,622	1/7/97	Isfeld et al.	395	200.02	
KBIA	AE	5,598,410	1/28/1997	Stone	370	469	
KBIA	AF	5,629,933	5/13/97	Delp et al.	370	411	
KBIA	AG	5,634,099	5/27/97	Andrews et al.	395	200.07	
KBIA	AH	5,634,127	5/27/97	Cloud et al.	395	680	
KBIA	AI	5,642,482	6/24/97	Pardillos	395	200.2	
KBIA	AJ	5,664,114	09/02/97	Krech, Jr. et al.	395	200.64	
KBIA	AK	5,671,355	9/23/97	Collins	395	200.2	
KBIA	AL	5,678,060	10/14/97	Yokoyama et al.	709	212	
KBIA	AM	5,692,130	11/25/97	Shobu et al.	395	200.12	
KBIA	AN	5,699,317	12/16/97	Sartore et al.	395	230.06	
KBIA	AO	5,701,434	12/23/97	Nakagawa	395	484	
KBIA	AP	5,701,516	12/23/97	Cheng et al.	395	842	
KBIA	AQ	5,749,095	5/5/98	Hagersten	711	141	
KBIA	AR	5,751,715	5/12/98	Chan et al.	370	455	
KBIA	AS	5,752,078	5/12/98	Delp et al.	395	827	
KBIA	AT	5,758,084	5/26/08	Silverstein et al.	395	200.58	
KBIA	AU	5,758,089	5/26/08	Gentry et al.	395	200.64	
KBIA	AV	5,758,186	5/26/08	Hamilton et al.	395	831	
KBIA	AW	5,758,194	5/26/08	Kuzma	395	886	
KBIA	AX	5,771,349	06/23/98	Picazo, Jr. et al.	395	188.01	
KBIA	AY	5,778,013	7/7/98	Jedwab	714	807	
KBIA	AZ	5,790,804	8/4/98	Osborne	709	245	
KBIA	BA	5,794,061	08/11/98	Hansen et al.	395	800.01	
KBIA	BB	5,802,580	09/01/98	McAlpice	711	149	
KBIA	BC	5,809,328	09/15/98	Nogal's et al.	395	825	
KBIA	BD	5,812,775	9/22/98	Van Seeters et al.	395	200.43	
Examiner		Date Considered					
Kristina Honeycutt		1/5/05					
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U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
KBA	BE	5,815,646	09/29/98	Purcell et al.	395	163	
KBA	BF	5,878,225	3/2/99	Bilansky et al.	395	200.57	
KBA	BG	5,913,028	6/15/99	Wang, et al.	395	200.33	
KBA	BH	5,930,830	7/27/99	Mendelson et al.	711	171	
KBA	BI	5,931,918	08/03/99	Row et al.	709	300	
KBA	BJ	5,935,205	08/10/99	Murayama et al.	709	216	
KBA	BK	5,937,169	08/10/99	Connery et al.	395	200.8	
KBA	BL	5,941,969	08/24/99	Ram et al.	710	128	
KBA	BM	5,941,972	08/24/99	Hoese et al.	710	129	
KBA	BN	5,950,203	09/07/99	Stakuis et al.	707	10	
KBA	BO	5,970,804	8/4/98	Osborne	395	200.75	
KBA	BP	5,991,299	11/23/99	Radogna et al.	370	392	
KBA	BQ	5,996,024	11/30/99	Blumenau	709	301	
KBA	BR	6,005,849	12/21/99	Roach et al.	370	276	
KBA	BS	6,009,478	12/28/99	Panner, et al.	710	5	
KBA	BT	6,016,513	01/18/00	Glen H. Lowe	709	250	
KBA	BU	6,021,446	02/01/00	Gentry et al.	709	303	
KBA	BV	6,026,452	02/15/00	William Michael Pitts	710	56	
KBA	BW	6,034,963	3/7/00	Minami et al.	370	401	
KBA	BX	6,038,562	3/14/00	Anjur et al.	707	10	
KBA	BY	6,044,438	03/28/00	Howard Thomas Olnowich	711	130	
KBA	BZ	6,047,356	04/04/00	Anderson et al.	711	129	
KBA	CA	6,057,863	05/02/00	Sompong P. Olarig	345	520	
KBA	CB	6,061,368	5/9/00	Hitzelberger	370	537	
KBA	CC	6,065,096	05/16/00	Day et al.	711	114	
KBA	CD	6,070,200	5/30/00	Gates et al.	710	20	
KBA	CE	6,101,555	8/8/00	Goshey et al.	709	321	
KBA	CF	6,141,705	10/31/00	Anand et al.	710	15	
Examiner <i>Kristina Honeycutt</i>				Date Considered <i>1/5/05</i>			
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U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date, If Appropriate
KBH	CG	6,145,017	11/7/00	Ghaffari	710	5	
KBH	CH	6,157,955	12/5/00	Narad et al.	709	228	
KBH	CI	6,172,980	1/9/01	Flanders et al.	370	401	
KBH	CJ	6,173,333	07/18/97	Jolitz et al.			
KBH	CK	6,202,105	3/13/01	Gates et al.	710	20	
KBH	CL	6,226,680	05/01/01	Boucher et al.	709	230	
KBH	CM	6,246,683	06/12/01	Connery et al.	370	392	
KBH	CN	6,247,060	06/12/01	Boucher et al.	709	238	
KBH	CO	6,279,051	8/21/01	Gates et al.	710	20	
KBH	CP	6,298,403	10/2/01	Suri et al.	710	100	
KBH	CQ	6,334,153	12/25/01	Boucher et al.	709	230	
KBH	CR	6,345,301	02/05/02	Burns et al.	709	230	
KBH	CS	6,356,951	03/12/02	Gentry et al.	709	250	
KBH	CT	6,389,468	05/14/02	Muller et al.	709	226	
KBH	CU	6,389,479	5/14/02	Boucher	709	243	
KBH	CV	6,421,742	7/16/02	Tillier	710	1	
KBH	CW	6,427,169	07/30/02	Elzur	709	224	
KBH	CX	6,434,651	08/13/02	Gentry, Jr.	710	260	
KBH	CY	6,449,656	09/10/02	Elzur et al.	709	236	
KBH	CZ	6,453,360	09/17/02	Muller et al.	709	250	
KBH	DA	6,480,489	11/12/02	Muller et al.	370	389	
KBH	DB	6,526,446	2/25/03	Yang et al.	709	230	
	DC						
	DD						
	DE						
	DF						
	DG						
	DH						
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Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
KBH	A	WO 98/50852	11/12/98	PCT/US98/0871	—	—	Yes	No
KBH	B	WO 99/04343	1/28/99	PCT/US98/14729	—	—	Yes	No
KBH	C	WO 99/65219	12/16/99	PCT/US/99/13184	—	—	Yes	No
KBH	D	WO 00/13091	3/09/00	PCT/US98/24943	—	—	Yes	No
KBH	E	WO 01/04770	1/18/01	PCT/US00/18939	—	—	Yes	No
KBH	F	WO 01/05107	1/18/01	PCT/US00/19006	—	—	Yes	No
KBH	G	WO 01/05116	1/18/01	PCT/US00/19243	—	—	Yes	No
KBH	H	WO 01/05123	1/18/01	PCT/US00/18976	—	—	Yes	No
KBH	I	WO 01/40960	6/07/01	PCT/US00/32660	—	—	Yes	No
	J						Yes	No
	K						Yes	No
	L						Yes	No
	M						Yes	No
	N						Yes	No
	O						Yes	No
	P						Yes	No
	Q						Yes	No
	R						Yes	No
	S						Yes	No
Examiner <i>Kristina Horrycush</i>		Date Considered <i>1/5/05</i>						
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OTHER ART—NON PATENT LITERATURE DOCUMENTS		
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KBNA	1	Internet pages entitled "Hardware Assisted Protocol Processing", (which Eugene Feinber is working on), 1 page, printed 11/25/98.
KBNA	2	Zilog product Brief entitled "Z85C30 CMOS SCC Serial Communication Controller", Zilog Inc., 3 pages, 1997.
KBNA	3	Internet pages of Xpoint Technologies, Inc. entitled "Smart LAN Work Requests", 5 pages, printed 12/19/97.
KBNA	4	Internet pages entitled: Asante and 100BASE-T Fast Ethernet. 7 pages, printed 5/27/97.
KBNA	5	Internet pages entitled: A Guide to the Paragon XP/S-A7 Supercomputer at Indiana University. 13 pages, printed 12/21/98.
KBNA	6	Richard Stevens, "TCP/IP Illustrated, Volume 1, The Protocols", pages 325-326 (1994).
KBNA	7	Internet pages entitled: Northridge/Southbridge vs. Intel Hub Architecture, 4 pages, printed 2/19/01.
KBNA	8	Gigabit Ethernet Technical Brief, Achieving End-to-End Performance. Alteon Networks, Inc., First Edition, September 1996, 15 pages.
KBNA	9	Internet pages directed to Technical Brief on Alteon Ethernet Gigabit NIC technology, www.alteon.com, 14 pages, printed 3/15/97.
KBNA	10	VIA Technologies, Inc. article entitled "VT8501 Apollo MVP4", pages i-iv, 1-11, cover and copyright page, revision 1.3, Feb. 1, 2000.
KBNA	11	iReady News Archives article entitled "iReady Rounding Out Management Team with Two Key Executives", http://www.ireadyco.com/archives/keyexec.html , 2 pages, printed 11/28/98.
KBNA	12	"Toshiba Delivers First Chips to Make Consumer Devices Internet-Ready Based On iReady's Design," Press Release October, 1998, 3 pages, printed 11/28/98.
KBNA	13	Internet pages from iReady Products, web site http://www.ireadyco.com/products.html , 2 pages, downloaded 11/25/98.
KBNA	14	iReady News Archives, Toshiba, iReady shipping Internet chip, 1 page, printed 11/25/98.
KBNA	15	Interprophet article entitled "Technology", http://www.interprophet.com/technology.html , 17 pages, printed 3/1/00.
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OTHER ART—NON PATENT LITERATURE DOCUMENTS		
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KBA	16	iReady Corporation, article entitled "The I-1000 Internet Tuner", 2 pages, date unknown.
KBA	17	iReady article entitled "About Us Introduction", Internet pages from http://www.iReadyco.com/about.html , 3 pages, printed 11/25/98.
KBA	18	iReady News Archive article entitled "Revolutionary Approach to Consumer Electronics Internet Connectivity Funded", San Jose, CA, November 20, 1997. 2 pages, printed 11/2/98.
KBA	19	iReady News Archive article entitled "Seiko Instruments Inc. (SII) INTRODUCES WORLD'S FIRST INTERNET-READY INTELLIGENT LCD MODULES BASED ON IREADY TECHNOLOGY," Santa Clara, CA and Chiba, Japan, October 26, 1998. 2 pages, printed 11/2/98.
KBA	20	NEWSwatch article entitled "iReady internet Tuner to Web Enable Devices", Tuesday, November 5, 1996, printed 11/2/98, 2 pages.
KBA	21	EETimes article entitled "Tuner for Toshiba, Toshiba Taps iReady for Internet Tuner", by David Lammers, 2 pages, printed 11/02/98.
KBA	22	"Comparison of Novell Netware and TCP/IP Protocol Architectures", by J.S. Carbone, 19 pages, printed 4/10/98.
KBA	23	Adaptec article entitled "AEA-7110C-a DuraSAN product", 11 pages, printed 10/1/01.
KBA	24	iSCSI HBA article entitled "iSCSI and 2Gigabit fibre Channel Host Bus Adapters from Emulex, QLogic, Adaptec, JNI", 8 pages, printed 10/01/01.
KBA	25	iSCSI HBA article entitled "FCE-3210/6410 32 and 64-bit PCI-to-Fibre Channel HBA", 6 pages, printed 10/01/01.
KBA	26	ISCSI.com article entitled "iSCSI Storage", 2 pages, printed 10/01/01.
KBA	27	"Two-Way TCP Traffic Over Rate Controlled Channels: Effects and Analysis", by Kalampoukas et al., IEEE Transactions on Networking, vol. 6, no. 6, December 1998, 17 pages.
KBA	28	iReady News article entitled "Toshiba Delivers First Chips to Make Consumer Devices Internet-Ready Based on iReady Design", Santa Clara, CA, and Tokyo, Japan, October 14, 1998, printed 11/2/98, 3 pages.
KBA	29	Internet pages of InterProphet entitled "Frequently Asked Questions", by Lynne Jolitz, printed 6/14/00, 4 pages.
KBA	30	"File System Design For An NFS File Server Appliance", Article by D. Hitz, et al., 13 pages.
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OTHER ART—NON PATENT LITERATURE DOCUMENTS		
*Examiner Initial	Cite No.	(Including Author, Title, Date, Pertinent Pages, Etc.)
KBN	31	Adaptec Press Release article entitled "Adaptec Announces EtherStorage Technology", 2 pages, May 4, 2000, printed 6/14/00.
KBN	32	Adaptec article entitled "EtherStorage Frequently Asked Questions", 5 pages, printed 7/19/00.
KBN	33	Adaptec article entitled "EtherStorage White Paper", 7 pages, printed 7/19/00.
KBN	34	CIBC World Markets article entitled "Computers; Storage", by J. Berlino et al., 9 pages, dated August 7, 2000.
KBN	35	Merrill Lynch article entitled "Storage Futures", by S. Milunovich, 22 pages, dated May 10, 2000.
KBN	36	CBS Market Watch article entitled "Montreal Start-Up Battles Data Storage Bottleneck", by S. Taylor, dated March 5, 2000, 2 pages, printed 3/7/00.
KBN	37	Internet-draft article entitled "SCSI/TCP (SCSI over TCP)", by J. Satran et al., 38 pages, dated February 2000, printed 5/19/00.
KBN	38	Internet pages entitled "Technical White Paper-Xpoint's Disk to LAN Acceleration Solution for Windows NT Server, printed 6/5/97, 15 pages.
KBN	39	Jato Technologies article entitled "Network Accelerator Chip Architecture, twelve-slide presentation, printed 8/19/98, 13 pages.
KBN	40	EETimes article entitled "Enterprise System Uses Flexible Spec, dated August 10, 1998, printed 11/25/98, 3 pages.
KBN	41	Internet pages entitled "Smart Ethernet Network Interface Cards", which Berend Ozceri is developing, printed 11/25/98, 2 pages.
KBN	42	Internet pages of Xahti corporation entitled "GigaPower Protocol Processor Product Review," printed 11/25/99, 4 pages.
KBN	43	Internet pages entitled "DART: Fast Application Level Networking via Data-Copy Avoidance," by Robert J. Walsh, printed 6/3/99, 25 pages.
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